What is claimed:

- 1. An affinity-tag labeled sublancin peptide comprising a chimeric polypeptide comprising a sublancin peptide, an amino acid spacer attached to the C-terminus of the sublancin peptide, and an affinity tag attached to the spacer.
- 2. The affinity-tag labeled sublancin peptide of claim 1, wherein the sublancin peptide is obtained from Bacillus subtilis.
- 3. The affinity-tag labeled sublancin peptide of claim 2, wherein the sublancin peptide is obtained from Bacillus subtilis strain 168.
- 4. The affinity-tag labeled sublancin peptide of claim 1 or 2, wherein the sublancin peptide comprises amino acid residues 1-37 of SEQ ID No. 2.
- 5. The affinity-tag labeled sublancin peptide of claim 1, wherein the spacer comprises from 1 to 15 amino acid residues.
- 6. The affinity-tag labeled sublancin peptide of claim 1, wherein the spacer comprises about 2-5 amino acid residues.
- 6. The affinity-tag labeled sublancin peptide of claim 1, wherein the affinity tag comprises from 2-10 histidine residues.
- 7. The affinity-tag labeled sublancin peptide of claim 6, wherein the affinity tag comprises from 2-6 histidine residues.
- 8. The affinity-tag labeled sublancin peptide of claim 7, wherein the affinity tag comprises about 6 histidine residues.

- 9. A method for producing an affinity tag labeled sublancin peptide by a host cell comprising the steps of:
- a) providing a host cell;
- b) providing a vector comprising a gene encoding an affinity tag labeled sublancin peptide comprising a sublancin peptide, an amino acid spacer attached to the C-terminus of the sublancin peptide, and an affinity tag attached to the spacer;
- c) transfecting the host cell with the vector;
- d) selecting a transfected host cell;
- e) thereafter, expressing the affinity-tag labeled sublancin peptide; and
- f) purifying the affinity tag labeled sublancin peptide.
- 10. The method of claim 9, wherein the sublancin peptide comprises amino acid residues 1-37 SEQ ID No. 2.
- 11. The method of claim 9, wherein the spacer comprises from 1-15 amino acid residues.
- 12. The method of claim 9, wherein the affinity tag comprises from 2-10 histidine residues.
- 13. The method of claim 9, wherein the host cell is Bacillus subtilis.
- 14. The method of claim 13, wherein the host cell is Bacillus subtilis strain 168.
- 15. A method of purifying an affinity-tag labeled sublancin peptide from a solution, the peptide comprising a sublancin peptide, an amino acid spacer attached to the C-terminus of the sublancin peptide, and an affinity tag attached to the spacer, and wherein the method comprises contacting the peptide with a solid support having an affinity for the affinity tag.

- 16. The method of claim 15, wherein the sublancin peptide comprises amino acid residues 1-37 SEQ ID No. 2.
- 17. The method of claim 15, wherein the spacer comprises from 1-15 amino acid residues.
- 18. The method of claim 15, wherein the affinity tag comprises from 2-10 histidine residues.
- 19. The method of claim 15, wherein the solid support is a nickel-coated plastic or magnetic bead.
- 20. A method for decontaminating a bacterial spore-infected area comprising treating the infected area with a spore-inhibiting effective amount of a peptide according to claim 1.
- 21. The method of claim 20, wherein the spore-inhibiting effective amount of the sublancin protein is 0.01 $\mu g/ml$ to 10 $\mu g/ml$.
- 22. The method of claim 20, wherein the bacterial spore is from at least one of *Bacillus*, *Enterococcus*, *Lactococcus*, *Listeria and Staphylococcus*.
- 23. The method of claim 22, wherein the bacterial spore is from Bacillus anthrasis.